

# BIOINFORMATICS IN SEARCH OF NOVEL DRUGS

## Summary

In the process of novel drugs creation, today's pharmaceutical industry applies a whole spectrum of advanced research methods for elucidation of disease mechanisms, finding and selection of the right points of therapeutic intervention, designing a proper means of intervention (drug candidate), evaluation of safety and efficacy of the candidate and evaluation of the drug in clinical trials. At each

stage of this complicated process, the computational techniques of biology, herein collectively called "bioinformatics", are an indispensable element of the research toolkit. In this article, are discussed the most common applications of bioinformatics, and challenges posed by the development of biology and medicine, as well as the evolving model of the drug discovery process